Kyle B Reed

List of Publications by Year
in descending order

78	1,610	840776 11	434195 31
papers	citations	h-index	g-index

78	78	78	1125
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Role of Spatial and Modality Cues on Visual and Haptic Memory. IEEE Transactions on Haptics, 2022, 15, 154-163.	2.7	0
2	Time Delay Affects Thermal Discrimination. IEEE Transactions on Haptics, 2022, 15, 451-457.	2.7	1
3	Real-time feedback control of split-belt ratio to induce targeted step length asymmetry. Journal of NeuroEngineering and Rehabilitation, 2022, 19, .	4.6	0
4	Wearable gait device for stroke gait rehabilitation at home. Topics in Stroke Rehabilitation, 2021, 28, 443-455.	1.9	12
5	Superposition principle applies to human walking with two simultaneous interventions. Scientific Reports, 2021, 11, 7465.	3.3	2
6	Identical Limb Dynamics for Unilateral Impairments through Biomechanical Equivalence. Symmetry, 2021, 13, 705.	2.2	1
7	Roll-Over Shapeâ€“Based Design of Novel Biomimetic Ankle-Foot Prosthesis. Journal of Prosthetics and Orthotics, 2021, 33, 279-293.	0.4	1
8	Human-Human Connected Dyads Learning a Visuomotor Rotation in a Targeted Reaching Task. , 2021, 2021, 6533-6538.		0
9	Walking assistance using crutches: A state of the art review. Journal of Biomechanics, 2020, 98, 109489.	2.1	34
10	Novel passive ankle-foot prosthesis mimics able-bodied ankle angles and ground reaction forces. Clinical Biomechanics, 2020, 72, 202-210.	1.2	11
11	Accuracy of Dynamic Force Compensation Varies With Direction and Speed. IEEE Transactions on Haptics, 2019, 12, 658-664.	2.7	0
12	Relearning functional and symmetric walking after stroke using a wearable device: a feasibility study. Journal of NeuroEngineering and Rehabilitation, 2019, 16, 106.	4.6	19
13	Feature selection in gait classification of leg length and distal mass. Informatics in Medicine Unlocked, 2019, 15, 100163.	3.4	1
14	Interaction of Multiple Gait Rehabilitation Techniques. Archives of Physical Medicine and Rehabilitation, 2019, 100, e186-e187.	0.9	1
15	Human Gait Analysis Metric for Gait Retraining. Applied Bionics and Biomechanics, 2019, 2019, 1-8.	1.1	6
16	Tactile Morse Code Using Locational Stimulus Identification. IEEE Transactions on Haptics, 2018, 11, 151-155.	2.7	6
17	Comparing Gait with Multiple Physical Asymmetries Using Consolidated Metrics. Frontiers in Neurorobotics, 2018, 12, 2.	2.8	22
18	Asymmetric Cooling and Heating Perception. Lecture Notes in Computer Science, 2018, , 221-233.	1.3	6

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19	Perceived Cooling Using Asymmetrically-Applied Hot and Cold Stimuli. IEEE Transactions on Haptics, 2017, 10, 75-83.	2.7	19
20	Quantifying the benefit of the Kinetic Crutch Tip. , 2017, 2017, 424-429.		1
21	Combined effects of leg length discrepancy and the addition of distal mass on gait asymmetry. Gait and Posture, 2017, 58, 487-492.	1.4	9
22	Evaluating the Gait of Lower Limb Prosthesis Users. Biosystems and Biorobotics, 2017, , 219-224.	0.3	0
23	3D Printed Passive Compliant and Articulating Prosthetic Ankle Foot. , 2017, , .		1
24	Effects on Balance When Interfering With Proprioception at the Knee. , 2017, , .		0
25	Assistive Force Redirection of Crutch Gait Produced by the Kinetic Crutch Tip. , 2017, , .		1
26	Analysis of Two-Dimensional Kinetic Shape Systems. , 2017, , .		0
27	Thermal Perception of Skin Using Optical Projections. , 2017, , .		2
28	Heat Flux Characteristics of Asymmetrically Heated and Cooled Thermal Stimuli. , 2017, , .		1
29	Evaluation of 3D printed anatomically scalable transfemoral prosthetic knee. , 2017, 2017, 1160-1164.		9
30	Asymmetrically-applied hot and cold stimuli gives perception of constant heat. , 2017, , .		9
31	Two-Dimensional Kinetic Shape Dynamics: Verification and Application. Journal of Nonlinear Dynamics, 2016, 2016, 1-15.	0.2	1
32	Assessing the role of preknowledge in force compensation during a tracking task. , 2016, 2016, 4581-4584.		0
33	Knee orthosis with variable stiffness and damping that simulates hemiparetic gait. , 2016, 2016, 2218-2221.		5
34	Combined gait asymmetry metric. , 2016, 2016, 2165-2168.		3
35	Crutch tip for swing-through crutch walking control based on a kinetic shape. , 2015, , .		8
36	Position and Weight Activated Passive Knee Mechanism. , 2015, , .		0

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37	Analysis of human stepping dynamics using a wii balance board with a webcam. , 2015, , .		1
38	Perception of gait patterns that deviate from normal and symmetric biped locomotion. Frontiers in Psychology, 2015, 6, 199.	2.1	22
39	Recognition of gait impairment evaluated using an artificial gait stimuli. , 2015, , .		0
40	To Know Your Own Strength: Overriding Natural Force Attenuation. IEEE Transactions on Haptics, 2014, 7, 264-269.	2.7	7
41	Kinetic Shapes: Analysis, Verification, and Applications. Journal of Mechanical Design, Transactions of the ASME, 2014, 136, 0610051-610058.	2.9	8
42	A novel telerobotic method for human-in-the-loop assisted grasping based on intention recognition. , 2014, , .		16
43	The ‘chopstick’ illusion: A simply demonstrated tactile illusion. , 2014, , .		1
44	The musical kinetic shape: A variable tension string instrument. Applied Acoustics, 2014, 85, 143-149.	3.3	5
45	Home-Based Rehabilitation: Enabling Frequent and Effective Training. Trends in Augmentation of Human Performance, 2014, , 379-403.	0.4	3
46	Design and analysis of a compliant bimanual rehabilitation device. , 2013, 2013, 6650456.		1
47	Validation of a passive dynamic walker model for human gait analysis. , 2013, 2013, 6945-8.		10
48	Robot-assisted balance training for gait modification. , 2013, 2013, 6650421.		1
49	Comparison of the passive dynamics of walking on ground, tied-belt and split-belt treadmills, and via the Gait Enhancing Mobile Shoe (GEMS). , 2013, 2013, 6650509.		8
50	Developing a Gait Enhancing Mobile Shoe to alter over-ground walking coordination. , 2012, 2012, 4124-4129.		9
51	Simultaneous Perception of Forces and Motions Using Bimanual Interactions. IEEE Transactions on Haptics, 2012, 5, 220-230.	2.7	12
52	Prosthesis design based on an asymmetric passive dynamic walker. , 2012, , .		14
53	Application of haptic feedback to a combot. , 2012, , .		0
54	The effects of incongruent feedback on bimanual task performance. , 2012, , .		3

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55	Cooperative Physical Human-Human and Human-Robot Interaction. Springer Series on Touch and Haptic Systems, 2012, , 105-127.	0.3	2
56	Asymmetric passive dynamic walker. , 2011, 2011, 5975465.		15
57	Robot-Assisted Needle Steering. IEEE Robotics and Automation Magazine, 2011, 18, 35-46.	2.0	146
58	Design and Pilot Study of a Gait Enhancing Mobile Shoe. Paladyn, 2011, 2, 193-201.	2.7	12
59	Symmetry modes and stiffnesses for bimanual rehabilitation. , 2011, 2011, 5975508.		5
60	Motion controlled gait enhancing mobile shoe for rehabilitation. , 2011, 2011, 5975417.		9
61	Robotic Needle Steering: Design, Modeling, Planning, and Image Guidance. , 2011, , 557-582.		74
62	Estimation of model parameters for steerable needles. , 2010, , 3703-3708.		18
63	Symmetric motions for bimanual rehabilitation. , 2010, , .		16
64	Evaluation of robotic needle steering in ex vivo tissue. , 2010, 2010, 2068-2073.		37
65	Laser-assisted telerobotic control for enhancing manipulation capabilities of persons with disabilities. , 2010, , .		6
66	Mechanics of Flexible Needles Robotically Steered through Soft Tissue. International Journal of Robotics Research, 2010, 29, 1640-1660.	8.5	251
67	Observations and models for needle-tissue interactions. , 2009, , .		41
68	Controlling a robotically steered needle in the presence of torsional friction. , 2009, , 3476-3481.		19
69	Modeling and Control of Needles With Torsional Friction. IEEE Transactions on Biomedical Engineering, 2009, 56, 2905-2916.	4.2	85
70	Gait enhancing mobile shoe (GEMS) for rehabilitation. , 2009, , .		9
71	Observations of needle-tissue interactions. , 2009, 2009, 262-5.		12
72	Physical Collaboration of Human-Human and Human-Robot Teams. IEEE Transactions on Haptics, 2008, 1, 108-120.	2.7	185

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73	Integrated planning and image-guided control for planar needle steering. , 2008, 2008, 819-824.		71
74	Needle-tissue interaction forces for bevel-tip steerable needles. , 2008, , 224-231.		74
75	Compensating for torsion windup in steerable needles. , 2008, 2008, 936-941.		12
76	Replicating Human-Human Physical Interaction. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	26
77	Haptically Linked Dyads. Psychological Science, 2006, 17, 365-366.	3.3	122
78	Haptic cooperation between people, and between people and machines. , 2006, , .		50